

Patent Claims

1. A pressure stamp device for sealing of films with a heatable stamping element having a stamping surface for applying a pressure to a first film in order to bond it with a supported second film, characterized in that the stamping element has a multilayer configuration and comprises basically three layers including a heated central layer of a first material with a high thermal conductivity value flanked by two peripheral layers of a second material, one of which forms the stamping surface.

2. The device according to claim 1 characterized in that the two peripheral layers are of identical thickness.

3. The device according to one of claims 1 or 2 characterized in that the central layer is made of copper.

4. The device according to one of claims 1 or 2 characterized in that the central layer is made of aluminum.

5. The device according to one of the preceding claims characterized in that the central layer has a thickness of about 20 mm.

6. The device according to one or more of the preceding claims characterized in that the peripheral layers are each made of steel.

7. The device according to claim 6 characterized in that the steel layers have a thickness of about 10 mm to 15 mm.

8. The device according to one or more of the preceding claims characterized in that bores are provided in the central layer through which heating elements are passed.

9. The device according to claim 8 characterized in that the heating elements are electrically heatable heating the wires.

10. The device according to one or more of claims 1 to 9 wherein the stamping element is rectangular.

11. The device according to one or more of claims 1 to 9 characterized in that the stamping element is circular.

12. The device according to one or more of the preceding claims characterized in that in a central region the stamping element is traversed by a hollow cylindrical bore through all layers in which a cylindrical pin is fitted.

13. The device according to one or more of the preceding claims characterized in that in an off-center region the peripheral layers of the stamping element have a slot and in the region of the slot in the central layer a bore is provided in which a further pin is fitted which is slidable in the slot.

14. The device according to one or more of the preceding claims characterized in that the peripheral layers are secured together by screws traversing the central layer.

15. The device according to one or more of the preceding claims characterized in that the stamping element is square with an edge length of about 300 mm.